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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/726,032

11/30/2000

Jeffrey Kent Fredenburgh

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04/06/2006

FITZPATRICK CELLA HARPER & SCINTO
30 ROCKEFELLER PLAZA
NEW YORK, NY 10112

EXAMINER

WARE, DEBORAH K

ART UNIT

PAPER NUMBER

1651

DATE MAILED: 04/06/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/726,032

Applicant(s)

FREDENBURGH ET AL.

Examiner

Deborah K. Ware

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1651

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 33-45 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 33 and 39-45 is/are rejected.
- 7) ☒ Claim(s) 34-38 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 30 November 2000 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>1/5/06</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claims 33-45 are presented for reconsideration on the merits.

Information Disclosure Statement

The information disclosure statement (IDS) submitted on January 5, 2006, was received. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Response to Amendment

The amendment filed January 5, 2006, and exhibits and declarations filed therewith have been received and entered of record. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

Claims 33 and 39-45 remain rejected under 35 U.S.C. 103(a) as being unpatentable over Lin et al. in view of WO 97/43385, Horney et al. , Blyth et al and Vinod, all cited of record, in the previous Office Action of July 7, 2005.

Claims are drawn to a composition for controlling odor associated with deposits of organic material which can cause odors, the composition comprising comprising dormant spore forming bacteria and adhering agents). The adhering agent can be stain-blocking chemicals or fluorochemicals. Further, the composition optionally includes sodium bicarbonate or molecular sieves. Also the stain-blocking agents can be varied sulfonated polymers (see claims 9 and 18).

Lin et al teach protected spore formers as the desired bacteria of which are of the

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genus *Bacillus* (B.) and include species *B. laevolacticus*, *B. pasteurii* and *B. amyloliquefaciens*. Note col. 3, lines 19-21 and col. 4, lines 40-65. Further, the cell counts are within 10^6 to 10^8 range, note col.s 5-6, lines 35-40.

WO Patent, cited above, teach a composition for controlling odor for soft surfaces and hard surfaces using microbial enzymes and sulfonated surfactants, anti-soil agents (pages 32-33, all lines), sodium carbonate (page 56, line 20), bicarbonates (page 30, line 33), condensation polymers (page 12, lines 20-35).

Horney et al teach method and composition for controlling odor for soft surfaces using *Bacillus* bacterial agent and other additives as necessary. *Bacillus megaterium* is specifically disclosed. Note col. 2, lines 30-50 and see the abstract. Also note col. 3-4, all lines.

Each of Blyth et al. and Vinod teach method and composition for controlling stains on soft surfaces comprising applying stain blockers and fluorochemicals. Specifically note Vinod, at col. 6, lines 45-65., and note abstracts of both references.

It would have been obvious to one of ordinary skill in the art at the time the claimed invention was filed to combine the disclosure of Lin, WO Patent, Horney, Blyth and Vinod in order to provide for a composition for controlling odor. Each of Lin, WO Patent and Horney teach deodorizing using bacterial agents and their products (i.e. dormant spores, enzymes, etc.). To select for dormant bacteria to control and provide for a composition for odor control is clearly taught. To combine the dormant bacteria with adhering agents is also disclosed wherein surfactants will adhere organic deposits and thus, function as an adhering agent.

Other adhering agents and/or trapping agents or neutralizing agents such as bicarbonate (i.e. sodium bicarbonate) are disclosed. Specifically stain-blockers and fluorochemicals are well known in the art to be useful for treating soft surfaces and to add them to dormant bacteria is clearly within the purview of an ordinary artisan. Horney clearly teaches additives to dormant bacteria is well known. The bacterial counts useful are disclosed. The specific adhering agents are disclosed. To combine the two is clearly an obvious modification of the cited prior art. Thus the claims are *prima facie* obvious over the cited prior art.

Response to Arguments

Applicant's arguments filed January 5, 2006, have been fully considered but they are not persuasive. It should be noted that the reference argued by Applicants as "Horner" is actually Horney. The argument that Lin does not teach adhering agents is noted, however, Lin is combined with other references which do teach adhering agents, notably WO Patent, Vinod and Blyth. Horney is cited for its teaching of bacterial products and additional ingredients as necessary, note above. Horney is not cited for a specific teaching of adhering agents.

Thus, in response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

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In response to applicant's argument that the adhering agent and bacteria products are not taught to be combinable in a single reference is noted, however, the fact that applicant has recognized another advantage which would flow naturally from following the suggestion of the prior art cannot be the basis for patentability when the differences would otherwise be obvious. See *Ex parte Obiaya*, 227 USPQ 58, 60 (Bd. Pat. App. & Inter. 1985). Horney is not combined for its teaching of enzymes per se, but for its teaching that microorganisms and their products are well known to be combined with other well known ingredients as necessary to affect an intended purpose or function.

Therefore, the point by Applicant that Horney teaches away from replacing enzymes is not relevant to the combination of the cited references since Horney does teach positively that other ingredients are added as necessary. The motivation to combine bacterial products with other necessary ingredients for an intended purpose is clearly set forth in the combination of all of the cited references taken together and not just Horney and Lin, or vice versa.

To select adhering agents as the necessary ingredient to combine with bacterial products for effecting odor control is clearly taught or suggested by the cited prior art combination and not just gleaned from one or two references taken together. Furthermore, Applicants' arguments do not even mention the cited WO Patent which clearly teaches adhering agents as well for use in odor control and combining them with bacterial products. One of skill would have been motivated to adhere bacteria and other agents to a surface to effect continued odor control over a period of time and to add an

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adhering agent to the composition to effect this is clearly an obvious modification of the cited prior art. The stain blockers can serve as adhering agents because they coat the surface and hence adhere to it so they can adhere the bacteria as well. Adhesion is a desired expected successful result of the cited prior art combination and in the absence of evidence to the contrary the claim remains prima facie obvious.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Claims 34-38 are rendered free of the prior art but are objected to for being dependent upon a rejected-base claim.

Claims 33 and 39-45 fail to be patentably distinguishable over the state of the art discussed above and cited on the previously enclosed PTO-892 and/or PTO-1449. Therefore, the claim is properly rejected.

The remaining references listed on the enclosed PTO-892 and/or PTO-1449 are cited to further show the state of the art.

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No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah K. Ware whose telephone number is 571-272-0924. The examiner can normally be reached on 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Deborah K. Ware
April 1, 2006



DAVID M. NAFF
PRIMARY EXAMINER
ART UNIT 128/451